

**IMPROVED METHOD OF OPERATING
A MOBILE TELECOMMUNICATIONS NETWORK
TO PROVIDE ROUTE OPTIMIZATION
AND QUALITY OF SERVICE**

5 Abstract of the Disclosure

In a 3G telecom network, when a mobile wanders in a foreign network and a home agent (26) is allocated a Care of Address for the mobile, the home agent (26) also changes packet headers so that the destination address is the Care of Address, and there is a mobile node identifier field
10 (50); the home agent maintains a mapping table of mobile nodes and mobile node identifiers. Route optimization is therefore provided. Quality of Service can be provided; when the mobile node sends a PATH message and a RSVP proxy server is built into the mobile node, the server changes the packet header source address to the mobile node Care of Address, to prevent
15 misrouting of the RESV message to the home network.

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